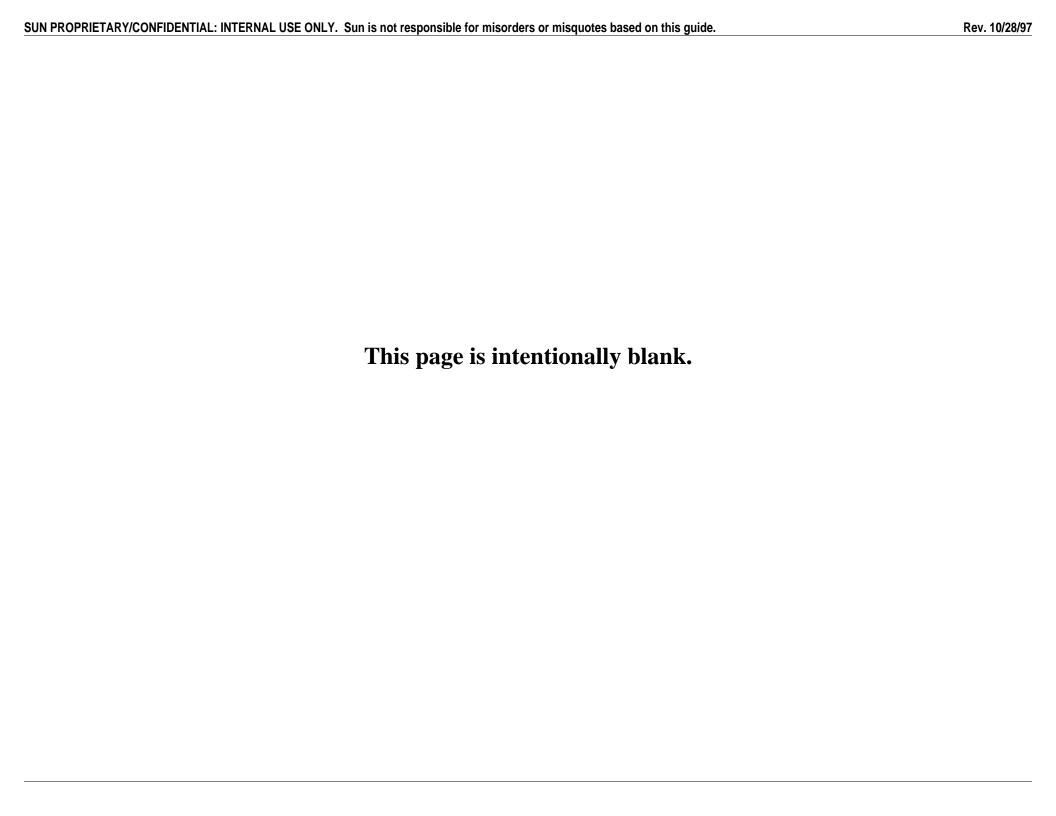


Network and Media Servers Section 2

Netra j Product Overview
Configured Systems
Software & Upgrades
Configure-to-Order Systems
Netra NFS 2 Models 1300 / 2300
Netra NFS 150
Sun MediaCenter UltraSPARC Server
Netra Options



Netra j - The Server for Java Computing



	Netra j 5	Netra j 170	Netra j 1300		
Packaging	Desktop	Desktop	Desktop		
Processor	TurboSPARC	UltraSPARC	UltraSPARC (1-2)		
Clock Speed	170 MHz	167 MHz	300 MHz		
Main Memory	32MB - 256MB	64MB - 1GB	128MB - 2GB 2MB e-cache		
Storage Type	SCSI-2	20 Mbps fast/wide SCSI	20 Mbps fast/wide SCSI		
Max. Internal Disk	4.2GB	4.2GB	8.4GB		
Ext. Disk Capacity	118GB	324GB	324GB		
Package Slots	3 SBus (32 bit)	2 SBus (64 bit) 1 dedicated UPA 2RS-232C/RS423 serial; 1 parallel	4 SBus (64-bit)		
Connectivity	10Mbps Ethernet (10Base-T or AUI)	10/100Mbps Ethernet (100Base-T or MII)	10/100Mbps Ethernet (100Base-T or MII)		

Network Options Token Ring, SunFastEthernet, Quad Ethernet, ISDN, HSI, FDDI, ATM, SunLink 3270 Gateway

Included Software

NETRA I SERIES

(Note: Underlined components are included in the Netra j Enhancement Software (NETRA-J-1.1-ESW))

- ◆ Back-End Connectivity: OC://WebConnect Pro (includes OC://WebConnect Gold SNA/legacy access software, OpenVista IDE 3270/5250 front-end development software) 8 licenses included; upgrades available in 10 and 100 license quantities
- ◆ Netra browser-based administration software: <u>JavaStation client, user, and HotJava Views groups and properties administration</u>, NIS, DNS, and legacy connectivity administration
- ◆ Java and Web Development: Java WorkShop, JavaVirtualMachine, Joe, Netra j Java Computing Library, Java Developer's Kit (JDK) 1.0.2 and JDK 1.1, Netscape LiveWire, Netscape Navigator Gold
- ♦ Netra Ready ISV applications: Applix Anyware, Corel Office for Java, and Sanga Software
- ♦ Web and E-mail: Netscape Enterprise Server, IMAP4, POP3
- Network Connectivity: Primary/secondary/caching DNS server, IPX Gateway software, Asynchronous PPP, Telnet, FTP, Anonymous FTP Server, TCP/IP support for all client types
- ♦ Security: FireWall-First!, Interscan VirusWall, WebStalker-First

Netra Configured Systems

Part		List	Discount
Number	Description	Price	Category
	NETRA t 1100 Telco SERVERS		
N01-UDB1-9N-128AC	Netra Telecommunication Server 1100 BB 250MHz, 128MB, 4GB disk, rackmount as standard for 19", Alarm Card, 10/100BaseT, -48/60VDC Power Supply dual input, NEBS certified for Central Office, 4 PCI Slots, no graphics, no audio.	\$16,995	A
N01-UDB1-9N-128AE	Netra Telecommunication Server 1100 BB 250MHz, 128MB, 9GB disk, rackmount as standard for 19", Alarm Card, 10/100BaseT, -48/60VDC Power Supply dual input, NEBS certified for Central Office, 4 PCI Slots, no graphics, no audio.	\$17,795	A
	NETRA J SERVERS		
NETRA-J-1.1-545	Netra j 5 with 170 MHz TurboSPARC processor, 32MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 4, 17" color monitor, and TurboGX frame buffer. Netra j 1.1 software for JavaStations and network client support, WebConnect and OpenVista for 3270/5250/VT220 host connectivity, JDK 1.0.2 & 1.1, JVM, Java Workshop, NIS, DHCP, WebStalker-First, InterScan VirusWall, Netra i 3.1 software. (Solaris 2.5.1, Netscape Enterprise Server, LiveWire, FireWall-First!, IPX Gateway preinstalled.)	\$8,195	A
NETRA-J-1.1-1175	Netra j 170 with 167 MHz UltraSPARC processor, 64MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 12, 17" color monitor, and TurboGX frame buffer. Netra j 1.1 software for JavaStations and network client support, WebConnect and OpenVista for 3270/5250/VT220 host connectivity, JDK 1.0.2 & 1.1, JVM, Java Workshop, NIS, DHCP, WebStalker-First, InterScan VirusWall, Netra i 3.1 software. (Solaris 2.5.1, Netscape Enterprise Server, LiveWire, FireWall-First!, IPX Gateway preinstalled.)	\$13,895	A
NETRA-J-1.1-21300	Netra j 1300 with 300 MHz UltraSPARC processor, 128MB, 4.2GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 12. Netra j 1.1 software for JavaStations and network client support, WebConnect and OpenVista for 3270/5250/VT220 host connectivity, JDK 1.0.2 & 1.1, JVM, Java Workshop, NIS, DHCP, WebStalker-First, InterScan VirusWall, Netra i 3.1 software. (Solaris 2.5.1, Netscape Enterprise Server, LiveWire, FireWall-First!, IPX Gateway preinstalled.)	\$26,495	A

NOTES:

- Netra t 1100 Telco Servers: Require Solaris 2.5.1 h/w 4/97. Systems are delivered with Jumpstart Software based on Solaris 2.5.1. The Alarm Card software components are supplied separately on a CD and need to be installed.
- It is possible to upgrade all Netra i 3.1 servers to Netra j servers. To do so, follow the respective ordering procedures for Netra i 3.1 and include the Netra j Enhancement Software (NETRA-J-1.0-ESW) with the order.
- All system orders that include a monitor must also include a Country Kit.
- In order to complete the installation and connect to the Internet, customers also need to select an Internet service provider.
- All peripherals supported on the respective underlying UltraSPARC or SPARCstation platform are also supported on the equivalent Netra j platform. All software supported on Solaris 2.5.1 can be installed and run on the Netra j. The Netra browser-based installation may not apply to such add-on modules.

Netra Software

Part Number	Description	List Price	Discount Category
	NETRA t 1100 Telco SERVERS		
NETRA-T-USR	Netra t 1100 User Guide	\$50	A
NETRA-T-SRV	Netra t 1100 Service Manual	\$50	A
NETRA-T-REF	Netra t 1100 System Reference Manual	\$50	A
	NETRA J & NFS SERVERS		
NETRA-J-1.1-ESW	Netra j Enhancement Software 1.1 for any Netra j 1.0 or i 3.1 server; Netra j 1.1 software for Java Computing and JavaStation support, 8-session demo license for WebConnect and OpenVista for 3270/5250/VT220 host connectivity, JDK 1.0.2 and 1.1, JVM, NIS, DHCP integrated on Netra j 1.1. CD; Java WorkShop and Netra Ready ISV CD copackaged.	\$395	В
NETRA-NFS1.1	Netra NFS SmartServe 1.1 software providing RAID-5, support for hot plug/spare/swap, and Syntax TotalNET Advanced Server (TAS) software which allows 25 PC (LAN Manager), NetWare, and MacOS clients to simultaneously and transparently access the Netra NFS Server. Includes media, documentation and license.	N/C	-
	NETRA I SERVERS		
NETRI-3.2	Domestic version: Netra i 3.2 web server and administration software, including Firewall-First 3.0, InterScan Virus Wall 2.0, WebStalker-First 1.1, Netscape Enterprise Server 3.0, SIMS 2.0	\$2.995	A
NETRI-P-3.2	Domestic version: Netra i Pro 3.2 web server and administration software, including Firewall-First 3.0, InterScan Virus Wall 2.0, WebStalker-First 1.1, Netscape SuiteSpot 3.1, SIMS 2.0	\$5,995	A
NETRI-3.2-ES	Domestic use only: Encryption kit for Netra i 3.2 web server	N/C	N/D
NETRI-3.2-49	International English, Japanese, Korean, Simplified Chinese, and Tradition Chinese version: Netra i 3.2 web server and administration software, including Firewall-First 3.0, InterScan Virus Wall 2.0, WebStalker-First 1.1, Netscape Enterprise Server 3.0, SIMS 2.0	\$2.995	A
NETRI-P-3.2-49	International English, Japanese, Korean, Simplified Chinese, and Tradition Chinese version: Netra i Pro 3.2 web server and administration software, including Firewall-First 3.0, InterScan Virus Wall 2.0, WebStalker-First 1.1, Netscape SuiteSpot 3.1, SIMS 2.0	\$5,995	A
NETRI-3.2-76	International English, French, German, Italian, Spanish & Swedish version: Netra i 3.2 web server and administration software, including Firewall-First 3.0, InterScan Virus Wall 2.0, WebStalker-First 1.1, Netscape Enterprise Server 3.0, SIMS 2.0	\$2.995	A
NETRI-P-3.2-76	International English, French, German, Italian, Spanish & Swedish version: Netra i Pro 3.2 web server and administration software, including Firewall-First 3.0, InterScan Virus Wall 2.0, WebStalker-First 1.1, Netscape SuiteSpot 3.1, SIMS 2.0	\$5,995	A

NOTE: Netra i 3.2 runs on all Sun server platforms with Solaris 2.5.1 and 2.6

Netra Software Upgrades

		List	Discount
From	Part Number and Description	Price	Category
	NETRA J SERVERS		
WebConnect Pro	NETRAJWBPRO-L10U	\$1,290	В
	10-session License Upgrade for Netra j 1.1 servers; right-to-use license for 10 sessions or users; requires Netra j 1.1 server,		
	maximum of 1,000 sessions per server.		
WebConnect Pro	NETRAJWBPRO-L100U	\$12,900	В
	100-session License Upgrade for Netra j 1.1 servers; right-to-use license for 10 sessions or users; requires Netra j 1.1 server,		
	maximum of 1,000 sessions per server.		
	NETRA I SERVERS		
Netra i 3.0 / 3.1	NETRI-3.2U	\$1,995	A
	Upgrade from Netra i 3.0 /3.1 to Netra i 3.2 web server and administration software, including Firewall-First 3.0, InterScan		
	Virus Wall 2.0, WebStalker-First 1.1, Netscape Enterprise Server 3.0, SIMS 2.0		
Netra i 3.0 / 3.1	NETRI-P-3.2U	\$4,995	A
	Upgrade from Netra i 3.0 /3.1 to Netra i Pro 3.2 web server and administration software, including Firewall-First 3.0, InterScan		
	Virus Wall 2.0, WebStalker-First 1.1, Netscape SuiteSpot 3.1, SIMS 2.0		

Netra NFS 2/1300 and 2/2300 Servers

Step 1 (required)

Order Base Package

Packages are delivered pre-installed with Netra NFS SmartServer Software based on Solaris 2.x. Some components need to be installed



Step 2 (required)

Choose Storage Options

Choose

1) MultiPack (go to Steps 3a-3c)

2) RSM Array storage option (go to Steps 4a-4c)



Step 3a (required if choosing MultiPack)

MultiPack Storage Options

- To run RAID 0+1, order 2 MultiPacks with same number of drives and 2 X1063A SCSI Host Adapters.
- To run RAID 5, order one or two MultiPacks and Host Adapter.
- Minimum 4 drives per MultiPack. Maximum 2 MultiPacks per system.



Step 3b (required if choosing MultiPacks)

Storage Disk Drives

To be added to:

X5515A (maximum 6 additional drives)

X5514A (maximum 10 additional drives, minimum 2)



Step 3c (required if choosing MultiPacks)

SCSI Adapter

Must order 1 Adapter for each MultiPack ordered.

Go to Step 5.

cont.

Part		List	Discount
Number	Description	Price	Category
NETRA-NFS-1300	Netra NFS 2 Model 1300 Base Package: 300MHz UltraSPARC-II, 256MB, 4.2GB Fast SCSI-2 disk, 100BaseT, 32MB NVRAM, Solstice Backup and HTML admin. Pre-installed, 25-client RTU for Syntax TOTALnet 5.1	\$33,995	A
NETRA-NFS-2300	Netra NFS 2 Model 2300 Base Package: Dual 300MHz UltraSPARC-II, 256MB, 4.2GB Fast SCSI-2 disk, 100BaseT, 32MB NVRAM, Solstice Backup and HTML admin. Pre-installed, 25-client RTU for Syntax TOTALnet 5.1	\$43,995	A

MULTIPACKS			
X5513A	MultiPack: 25.2GB (12 x 2.1GB 7200 RPM F/W SCSI-2)	\$12,400	A
X5514A	MultiPack: 8.4GB (2 x 4.2GB 7200 RPM F/WSCSI-2)	\$3,600	A
X5515A	MultiPack: 25.2GB (6 x 4.2GB 7200 RPM F/WSCSI-2)	\$8,800	A
X5516A	MultiPack: 50.4GB (12 x 4.2GB 7200 RPM F/WSCSI-2)	\$16,600	A

STORAGE DISK DRIVES			
X5514A	MultiPack: 8.4GB (2 x 4.2GB 7200 RPM F/WSCSI-2)	\$3,600	A

	SCSI ADAPTER		
X1063A	SBus Single-Ended F/W SCSI-2 Host Adapter (SWIS/S)	\$1,195	A

Netra NFS 2/1300 and 2/2300 Servers (cont.)

Step 4a (required if choosing RSM Array)

RSM Array Cabinet & Controller

- Maximum of 1 RSM Array per system.
- Maximum of 6 trays per RSM Array.
- To run RAID 0+1: order 2, 4, or 6 trays. Each pair of trays must have the same number of drives.
- To run RAID 5, order 1 to 6 trays. Minimum 4 drives per tray.



Step 4b (required if choosing RSM Array)

RSM Drive Trays

Choose either 4GB or 9GB disks. All drives in one Cabinet must be of same type. Choose 1 to 6 trays. Each tray must have 4 or more drives



Step 4c (required if choosing RSM Array)

Power Cord

Choose one Power Cord for your location.



Step 5 (required)

Networking & Communications Controllers

Maximum of 2 controllers, depending of number of storage controllers and NVRAM cards. Total of 4 SBus slots available - at least 2 already taken by NVRAM and Host Adapter.



Step 6 (optional)

NVRAM Card

Add NVRAM Card to increase performance. Maximum of 2 cards per system.



Part		List	Discount
Number	Description	Price	Category
	RSM ARRAY CABINET & CONTROLLER		
ENTCAB	Indicates installation in Ex000 Expansion Cabinet	N/A	N/A
X956A	Enterprise Expansion Cabinet - 56"	\$8,000	A
795AR5	Controller Assemby w/ 15-meter Fibre Channel Cable	\$13,000	A
X1057A	SRus Host Adapter: 25MR/sec. Fibre Channel	\$1,600	Δ

	RSM DRIVE TRAYS			
6507AR5	RSM Tray: 12.6GB (3x4.2GB 7200 RPM fast/wide SCSI-2)	\$9,650	A	
6508AR5	RSM Tray: 29.4GB (7x4.2GB 7200 RPM fast/wide SCSI-2)	\$15,850	A	
6509AR5	RSM Drive Module: 4.2GB 7200 RPM	\$1,550	A	
6514AR5	RSM Tray: 27.3GB (3 x 9.1GB)	\$12,410	A	
6515AR5	RSM Tray: 63.7GB (7 x 9.1GB)	\$22,290	A	
6516AR5	RSM Drive Module: 9.1GB 7200 RPM	\$2,470	A	

POWER CORDS			
3800A	Power cord for Enterprise System and Expansion Cabinet, U.S. Version.	NC	N/D
3848A	Power cord for Enterprise System and Expansion Cabinet, International version (IEC 309, 32A, 250V plug).	N/C	N/D

NETWORKING & COMMUNICATIONS CONTROLLERS				
X1014A	Token Ring Interface / SBus (TRI/S) (Solaris 2.x)	\$1,350	В	
X1025A	SunFDDI 5.0 Single-attach SBus adapter (SAS)	\$2,500	A	
X1026A	SunFDDI 5.0 Dual-attach SBus adapter (DAS)	\$3,775	A	
X1059A	A SunFastEthernet 10/100 SBus Adapter 2.0 SBus Card, and		A	
	Solaris 1.x Driver			
X1060A	SunATM-155/MFiber SBus Adapter 2.0	\$1,295	A	
X1061A	SunATM-155/UTP5 SBus Adapter 2.0	\$995	A	
X1064A	SunATM-622/MFiber SBus Adapter	\$4,995	A	

NVRAM CARD				
X1075A	SBus NVRAM Card, 32MB for Netra NFS 2/1300 & 2/2300	\$6,895	A	

cont.

Netra NFS 2/1300 and 2/2300 Servers (cont.)

Part	D		List	Discount		
Number	Number Description		Price	Category		
	MEMORY					
X7002A	64MB memory expansion (2 X 32MB SIMMs)	\$	1,000	A		
X7003A	128MB memory expansion (2 X 64MB SIMMs)	\$	2,000	A		
X7004A	256MB memory expansion (2 X 128MB SIMMs)	\$	5,800	A		

CPU MODULE			
X1191A	CPU Module: UltraSPARC-II 300MHz with 2MB cache for Ultra2	\$10,000	A

	EXTERNAL TAPE		
X6057A	Flexipack: 20-40GB DLT4000 with 68-68 pin SCSI cable	\$6,400	A
X6060A	Flexipack: 35-70GB DLT7000 with 68-68 pin SCSI cable	\$10,900	A
X6071A	Tape Autoloader: DLT4700 in External Desktop Enclosure w/ 50-68 & 68-68 pin SCSI cables		A
X6073A	ETL 4/1800 with 2 DLT7000 Tape Drives & 52 slots	\$72,000	A
X6208A	UniPack: 14GB 8mm with 68-68pin SCSI cable	\$2,150	A
X6226A	Library: 400GB 8mm, Model 8/400, Rack-Mountable Unit with Tape Drives	\$23,500	A
6226AR5	Library: 400GB 8mm, Model 8/400, Rack-Mountable Unit with Tape Drives	\$23,500	A
X6227A	Library: 140GB 8mm with 1 Internal Drive in Tower Unit	\$8,200	A
6228AR5	Library: 140GB 8mm with 1 Internal Drive in Rackmount Unit	\$8,200	A
X6230A	UniPack: 20-40GB 8mm with 68-68 pin SCSI cable.	\$5,625	A
X1062A	SBus Fast/Wide Differential Intelligent SCSI-2 Host Adapter (DWIS/S)	\$1,295	A
BAK-JB3-4.2.6-L	Solstice Backup 4.2 Turbo Module, 1-32 slot	\$5,000	В

Step 7 (optional)

MemoryMust be ordered in pairs of the same part number. Maximum of 3 pairs.





Order 2nd CPU for Netra NFS 2/1300

1 additional UltraSPARC-II CPU module may be added to Netra NFS 2/1300



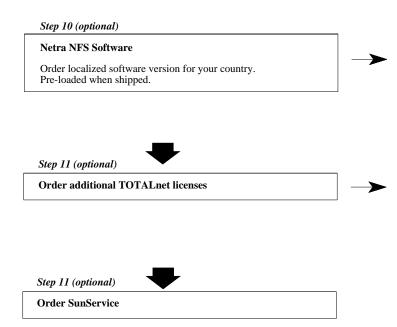
Step 9 (optional)

External Tape

Maximum of 4 per system. X6071A and X6227A require BAK-JB3-4.2.6-L. X6225A requires X1062A and BAK-JB3-4.2.6-L.



Netra NFS 2/1300 and 2/2300 Servers (cont.)



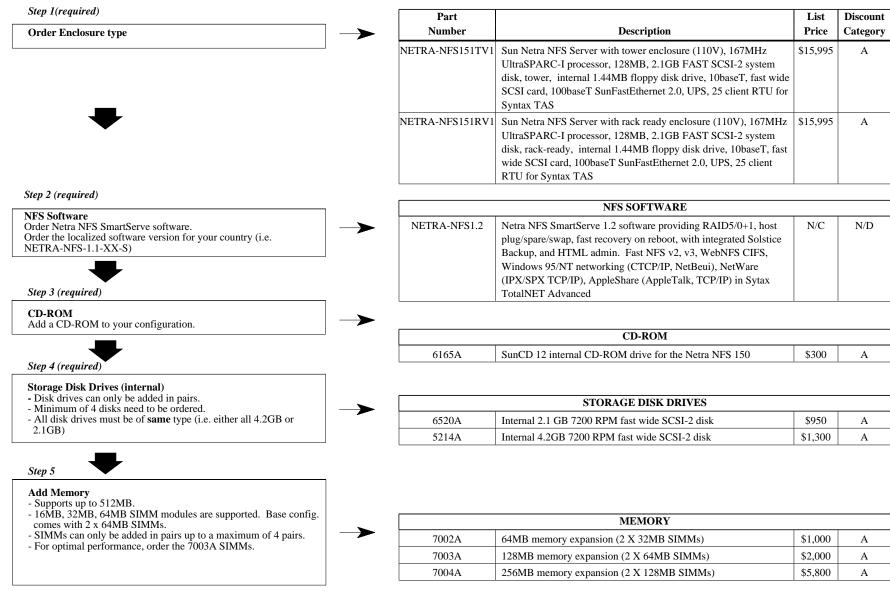
Part	Part		Discount		
Number	Description		Category		
	TOTALnet LICENSES				
NETRA-NFS-1.2-47-S	TOTALnet 5.0, 25-use license: Chinese Localization Kit	N/C	D		
NETRA-NFS-1.2-02-S	TOTALnet 5.0, 25-use license: French Localization Kit	N/C	D		
NETRA-NFS-1.2-03-S	TOTALnet 5.0, 25-use license: German Localization Kit	N/C	D		
NETRA-NFS-1.2-74-S	TOTALnet 5.0, 25-use license: Italian Localization Kit	N/C	D		
NETRA-NFS-1.2-46-S	TOTALnet 5.0, 25-use license: Japanese Localization Kit	N/C	D		
NETRA-NFS-1.2-45-S	TOTALnet 5.0, 25-use license: Spanish Localization Kit	N/C	D		
NETRA-NFS-1.2-72-S	TOTALnet 5.0, 25-use license: Taiwanese Localization Kit	N/C	D		
NETRA-NFS-1.2-44-S	ETRA-NFS-1.2-44-S TOTALnet 5.0, 25-use license: Swedish Localization Kit		D		
	ADDITIONAL LICENSES				
NETRA-NFS-L25	TOTALnet SW 25-user license	\$1,000	A		

Netra NFS 150 Server

	1100141112 100 801 101				
Product Specifications	Netra NFS 150 Server				
Packaging	Tower or Rack Ready (4 servers per standard 19-inch rack) - 110V or 240V				
Processor	167 MHz UltraSPARC uniprocessor				
Cache Size	16KB on chip, 512KB external cache				
Memory	128MB - 512MB ECC				
Internal Disks	1-inch 7200 RPM				
	Base: One 2.1GB system disk, four 4.2GB data disks				
	• Maximum: One 2.1GB system disk; twelve 4.2GB data disks (50.4GB total capacity, 1 of these 4.2GB used for parity)				
External Disk Capacity	Supports MultiPack-12 (up to twelve 4.2GB data disks; 50.4GB total external disk capacity, one disk for parity, external MultiPack is second file system)				
Networks	Base: One on-board 10BASE-T Ethernet and one 10/100BASE-T Fast Ethernet				
	Maximum: Nine 10BASE-T, two 100BASE-T, two FDDI, two Token Ring interfaces, or two SunATM 155MB adapters				
I/O Slots	3 SBus slots: one fast/wide SCSI card for 4-12 data disks; one 100BASE-T Fast Ethernet, one available slot				
Monitor, TGX	Optional - not recommended				
System Software	Netra NFS SmartServe 1.1 (optimized version of the Solaris 2.5.1 operating environment, plus on-line backup software, plus Syntax TAS software)				
Netra NFS SmartServe 1.1 Features	NFS v2 and v3, PC-NFS Authentication Server, DNS server or client, NIS client, local server, single server Solstice Backup (pre- enabled), WebNFS (NFS file access over WWW)				
Internal Media, Backup	SunCD 12 required and floppy drive standard. 4mm DDS-3 tape optional and factory-installable				
External Tape Backup	SPARCstorage Library Model 8/140, 140GB optional, DLT 4000 and 6000				
Ease-of-Management Features	Preinstalled software, Web browser-based (HTML) administration				
	Single file system for each meta-device				
	RAID 5 initialized disks				
	SNMP agent				
	Network configuration through LCD panel or floppy disk				
	Bundled on-line backup/restore software (Solstice Backup)				
	PDC BudTool and Spectra Logic Alexandria backup software qualified				
Reliability & Availability Features	Internal UPS to filter power outage spikes and for graceful shutdown in case of power failure				
	Smart recovery from system hangs				
	E-mail notification of problems				
	RAID 5 standard				
	Hot disk spares, swaps, and plugs supported				
Performance	Tower: 1542 NFSops at 15.8 ms (RAID 5)				
	Rack: Est. 5292 NFSops at 14.5 ms (RAID 5) in single enclosure (4 to a rack)				

Netra NFS 150 Server

The Netra NFS Server is a configure-to-order product consisting of an entry product and additional factory-installable options. Rack-ready configurations include a rack-mount kit for standard 19-inch racks. All system orders must also include a Localized Power Cord Kit at no charge. NOTE: Order an Encryption Kit (NETRA-I-3.1-E-S) at no charge with every Netra Internet server that is ordered in the United States.



Step 11 (optional)

TOTALnet Licenses

Order additional TOTALnet licenses (25-user).

Netra NFS 150 Server (cont.)

Step 6 (optional)	Part Number	Description	List Price	Discour Categor
Internal Tape Maximum of 1 internal tape		INTERNAL TAPE		
Maximum of 1 internal tape	6286A	12/24GB 4mm DDS3 tape drive	\$1,800	A
-		NETWORKING & COMMUNICATIONS CONTROLLED	RS	
Step 7 (optional)	1014A	Token ring interface/SBus (TRI/S) for Solaris 2.x	\$1,350	A
Networking & Communications Controllers	1025A	SunFDDI single-attach SBus adapter (SAS) (FDDI-5)	\$2,500	A
Add desired controllers. Only 1 Sbus slot is available for either network or external disk SCSI adapter.	1026A	SunFDDI single-attach SBus adapter (DAS) (FDDI-5)	\$3,775	A
ictwork of external disk seest adapter.	1042A	Quad FastEthernet SBus card (QFE)	\$1,995	A
	1059A	SunFastEthernet 10/100 SBus adapter 2.0	\$795	A
	1060A	SunATM-155/MFiber SBus adapter 2.0	\$1,295	A
	1061A	SunATM-155/UTP SBus adapter 2.0	\$995	A
SCSI Adapter Order one SWIS/S SBus host adapter to connect external disks.	1063A	SCSI ADAPTER SWIS/S Sbus host adapter	\$1.195	A
•				
Step 9 (optional)		EXTERNAL DISK		
External Disk	X5512A	12.6GB SCSI-2 MultiPack (6 X 2.1GB)	\$6,700	A
Add desired external disk storage. Only 1 Sbus slot is available for	X5512A X5513A	12.6GB SCSI-2 MultiPack (6 X 2.1GB) 25.2GB SCSI-2 MultiPack (12X 2.1GB)	\$6,700 \$12,400	A A
Add desired external disk storage. Only 1 Sbus slot is available for			H	
Add desired external disk storage. Only 1 Sbus slot is available for	X5513A	25.2GB SCSI-2 MultiPack (12X 2.1GB)	\$12,400	A
Add desired external disk storage. Only 1 Sbus slot is available for	X5513A X5514A	25.2GB SCSI-2 MultiPack (12X 2.1GB) 8.4GB SCSI-2 MultiPack (2 X 4.2GB)	\$12,400 \$3,600	A A
Add desired external disk storage. Only 1 Sbus slot is available for	X5513A X5514A X5515A	25.2GB SCSI-2 MultiPack (12X 2.1GB) 8.4GB SCSI-2 MultiPack (2 X 4.2GB) 25.2GB SCSI-2 MultiPack (6 X 4.2GB)	\$12,400 \$3,600 \$8,800	A A A
Add desired external disk storage. Only 1 Sbus slot is available for either network or external disk SCSI adapter.	X5513A X5514A X5515A	25.2GB SCSI-2 MultiPack (12X 2.1GB) 8.4GB SCSI-2 MultiPack (2 X 4.2GB) 25.2GB SCSI-2 MultiPack (6 X 4.2GB)	\$12,400 \$3,600 \$8,800	A A A
Add desired external disk storage. Only 1 Sbus slot is available for either network or external disk SCSI adapter. Step 10 (optional) External Tape	X5513A X5514A X5515A	25.2GB SCSI-2 MultiPack (12X 2.1GB) 8.4GB SCSI-2 MultiPack (2 X 4.2GB) 25.2GB SCSI-2 MultiPack (6 X 4.2GB) 50.4GB SCSI-2 MultiPack (12 X 4.2GB)	\$12,400 \$3,600 \$8,800	A A A
Add desired external disk storage. Only 1 Sbus slot is available for ither network or external disk SCSI adapter. Step 10 (optional) External Tape	X5513A X5514A X5515A X5516A	25.2GB SCSI-2 MultiPack (12X 2.1GB) 8.4GB SCSI-2 MultiPack (2 X 4.2GB) 25.2GB SCSI-2 MultiPack (6 X 4.2GB) 50.4GB SCSI-2 MultiPack (12 X 4.2GB) EXTERNAL TAPE	\$12,400 \$3,600 \$8,800 \$16,600	A A A
Add desired external disk storage. Only 1 Sbus slot is available for either network or external disk SCSI adapter. Step 10 (optional) External Tape	X5513A X5514A X5515A X5516A X6058A	25.2GB SCSI-2 MultiPack (12X 2.1GB) 8.4GB SCSI-2 MultiPack (2 X 4.2GB) 25.2GB SCSI-2 MultiPack (6 X 4.2GB) 50.4GB SCSI-2 MultiPack (12 X 4.2GB) EXTERNAL TAPE 20/40GB FlexiPack DL T4000 50/68	\$12,400 \$3,600 \$8,800 \$16,600 \$6,400	A A A A
External Disk Add desired external disk storage. Only 1 Sbus slot is available for either network or external disk SCSI adapter. Step 10 (optional) External Tape Add desired external tape storage. No SWIS/S host adapter needed.	X5513A X5514A X5515A X5516A X6058A X6061A	25.2GB SCSI-2 MultiPack (12X 2.1GB) 8.4GB SCSI-2 MultiPack (2 X 4.2GB) 25.2GB SCSI-2 MultiPack (6 X 4.2GB) 50.4GB SCSI-2 MultiPack (12 X 4.2GB) EXTERNAL TAPE 20/40GB FlexiPack DL T4000 50/68 35-70GB DLT7000 FlexiPack tape w/ 50/68 pin SCSI cable	\$12,400 \$3,600 \$8,800 \$16,600 \$6,400 \$10,900	A A A A

NETRA-NFS-L25

 \rightarrow

BAK-JB3-4.2.6-L | Solstice Backup 4.2 Turbo Module, 1-32 slot

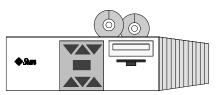
TOTALnet SW 25-user license

TOTALnet LICENSES

\$5,000

\$1,000

Α



PRODUCT SPECIFICATIONS

Multiprocessing	Yes		
Data (Video) Streaming Rates			
Sustained throughput (Mbps)	100		
Number of streams at 1.5 / 4.0 Mbps	70 / 25		
Max. concurrent users at 1.5 / 4.0 Mbps	70 / 25		
Base Package Configuration			
Base System	Ultra Enterprise 2 Model 2170		
Memory	256MB		
Internal Disk(s)	2 x 2.1GB 7200 RPM Fast/Wide SCSI-2		
CD-ROM Drive	644MB SunCD 4		
Floppy Drive	1.44MB Floppy Drive		
Tape Drive	No		
Ethernet	(100BaseT) / 10BaseT		
Serial Ports	$\frac{1}{2}$		
High-Speed Parallel	1		
Sun MediaCenter Software / License	Subset Pre-Installed / Server		
Solaris Software / License	Solaris 2.5.1 Subset Pre-Installed		
System Processor			
Number of CPUs	2		
CPU Clock Speed	167 MHz		
CPU Type	UltraSPARC		
Cache Size on CPU / CPU Module	512KB / 2MB		
Network Interfaces			
Forward (MPEG Encoded Data)			
Interface Adapter	ATM	Fast Ethernet	
Adapter Throughput (Mbps)	155	100	
Number of Adapters	1	2 (1 on-board, 1 adapter)	
Back Channel (TCP/IP)	ATM or Ethernet	Fast Ethernet or Ethernet	
Media (Video) Storage			
Total / Net Capacity	50.4GB / 42.2GB		
True VOD Title Capacity (30 min) at 1.5 / 4.0 Mbps	124 / 42		
Controller Interface	Fast/Wide SCSI		
Number of Controllers	2		
RAID Level	RAID 4 (parity / stri	ping)	
Data Integrity / Recover	5:1 Parity	r <i>8</i> /	
VCR Functions (VOD, NVOD)	NVOD and True VO)D	
Media Content Format			
Video: MPEG-1 Systems	Yes		
Video: MPEG-1 Program and Transport	Yes		
Audio: MPEG 1, Layer 1/2	Yes		

Sun MediaCenter UltraSPARC Server

Model 500 with Two 167-MHz UltraSPARC Processors, each with 512KB UltraCache:

Part Number	Description	List Price	Discount Category
SMC-A14-167-500	Sun MediaCenter 500 Base Package, 256MB, 2 x 2.1GB 7200 RPM Internal Fast/Wide SCSI-2 disks, 644MB	\$64,995	A
	Internal SunCD 4, 50.4GB RAID-4 storage with 0.8 meter cable, ATM OC-3 & 100BaseT Ethernet cards		

GENERAL NOTES:- Sun MediaCenters are shipped fully configured and will support limited field/customer installed options.

- All internal add-on components must be included on the initial system order.
- All systems ship with the appropriate Solaris 2.x Server License. Systems are delivered with the Sun MediaCenter Software and a customized version of Solaris pre-installed (no CD-ROM media included).
 Order a Solaris 2.5.1 Server Media Kit separately.
- Solstice Backup and Solstice DiskSuite are not compatible with the Sun MediaCenter Media File System.
- All system orders must include a Localized Power Cord Kit at no charge. Type 5 Country Kits are not available for Sun MediaCenters.

For Netra option compatibility and pricing, see respective underlying UltraSPARC or SPARCstation platforms:

Netra Platform	Underlying Platform
j5	SPARCstation 5
j 170	Ultra 1 Model 170
j 1300	Ultra 2 Model 1300
NFS 2/1300	Ultra 2 Model 1300
NFS 2/2300	Ultra 2 Model 2300
NFS 150	Ultra Enterprise 150 Server

Option	Description	List Price	Discount Category	Netra t 1100	SMC
(X)5214A	Internal Disk Drive: 4.2GB (7200 RPM Fast/Wide SCSI-2)	\$1,300	A*	√ ⁵	
(X)5251A	Internal Disk Drive: 9.1GB (7200 RPM Fast/Wide SCSI-2)	\$2,200	A*	√5	
X5514A ³	8.4GB (2 x 4.2GB) 7200 RPM SCSI-2 SPARCstorage MultiPack with 68-68 pin SCSI cable <i>NOTE:</i> Requires Solaris 2.3 or later.	\$3,600	A*		✓
X5515A ³	25.2GB (6 x 4.2GB) 7200 RPM SCSI-2 SPARCstorage MultiPack with 68-68 pin SCSI cable NOTE: Requires Solaris 2.3 or later.	\$8,800	A*		1
X6106	4-8GB SLR internal tape drive for Ultra 30	\$950	A		✓
X6109A	UniPack: 4-8 GB SLR with 50-68 pin cable	\$1175	N/C	✓	
X6158A ⁷	UniPack: SunCD 12 with 50-68 SCSI cable NOTE: Requires Solaris 1.1.1 or later, or Solaris 2.4 or later.	\$525	A*	1	
X6161A	SunCD 12 internal CD-ROM drive	\$300	A	✓ 6	✓
X6208A ¹	14GB 8mm UniPack tape w/ 68-68pin SCSI cable	\$2,625	A		✓
X6209A ⁷	UniPack: 14GB 8mm with 50-68pin SCSI cable	\$2,150	A	✓	
X6230A ¹ , ²	20-40GB 8mm SPARCstorage UniPack with 68-68 pin SCSI cable. NOTE: Requires Solaris 2.5 or later.	\$5,625	A		1
X6231A ⁷	UniPack: 20-40GB 8mm with 50-68 pin SCSI cable. NOTE: Requires Solaris 2.5 or later.	\$5,625	A	1	
X6236A ²	20-40GB 8mm internal tape drive for the FlexiPack	\$5,400	A		1
X6261A ¹	4-8GB 4mm DDS-2 UniPack w/ 68-68pin SCSI cable	\$1,475	A		1
X6262A ⁷	UniPack: 4-8GB 4mm DDS-2 with 50-68pin SCSI cable	\$1,475	A	1	
X6265A	4-8GB 4mm DDS-2 FlexiPack internal tape drive for the FlexiPack	\$1,250	A		1
(X)6280A ¹	12-24GB 4mm DDS-3 Tape UniPack with 68-68 pin SCSI cable.	\$2,025	A		1
X6281A ⁷	UniPack: 12-24GB 4mm DDS-3 with 50-68 pin SCSI cable NOTE: Requires Solaris 1.1.2 or later, or Solaris 2.4 or later. Supported by Solstice Backup 4.2.	\$2,025	A	1	
X6900A	Alarms Card Software Driver, Media	\$200	A	✓	
X6901A ⁴	19" Rack Mount Kit for Netra t 1100	\$250	A	1	
X6902A ⁴	23" Rack Mount Kit for Netra t 1100	\$250	A	1	
X6903A ⁴	24" Rack Mount Kit for Netra t 1100	\$250	A	1	
X6904A ⁴	600mm Rack Mount Kit for Netra t 1100	\$250	A	1	
(X)7002A ⁸	Memory Expansion: 64MB (2 x 32MB SIMMs)	\$1,000	A*	1	
(X)7003A ⁸	Memory Expansion: 128MB (2 x 64MB SIMMs)	\$2,000	A*	1	
(X)7004A ⁸	Memory Expansion: 256MB (2 x 128MB SIMMs)	\$5,800	A*	✓	

- * Maximum discount may apply/ Add "X" before the Order Number to order as a standalone option for existing systems.
- 68-68 pin cables are required to connect a UniPack to another UniPack or to a wide SCSI host adapter.
- ² A SWIS/S Host Adapter with Solaris 2.3 or later is required for Wide SCSI functionality.
- ³ For use outside of N.A., Europe, or Asia, order a localized power cord at no charge.
- Base configurations are not fitted with rackmount adapters or flanges. Up to 2 kits can be used per system.
- 5 Base configurations can accept a single additional internal disk. Maximum of 2 internal disk drives.
- ⁶ Base configurations support one CD-ROM drive.
- Requires 50-68 pin cables to connect a UniPack to a 50 pin SCSI host adapter, desktop storage or disk pack
- 8 Reccommended that memory be installed in groups of 4 same-sized SIMMs